

10 12 14 16 18 20 22 24

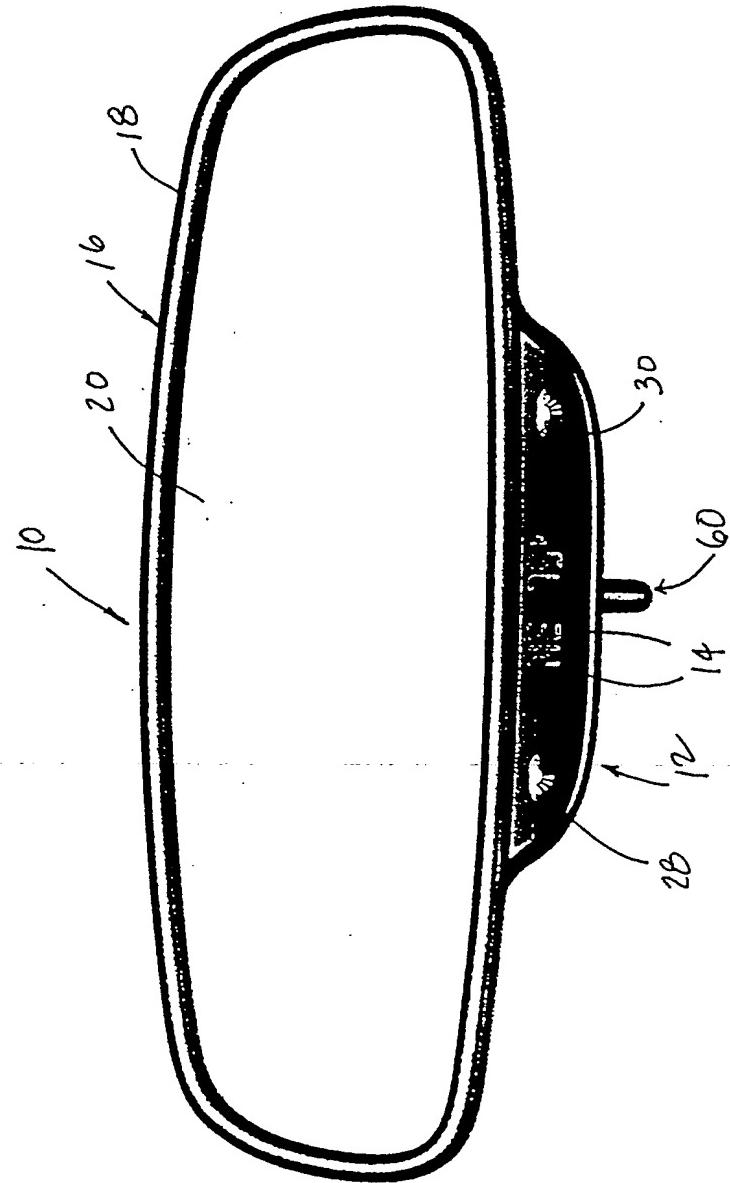


FIG.1

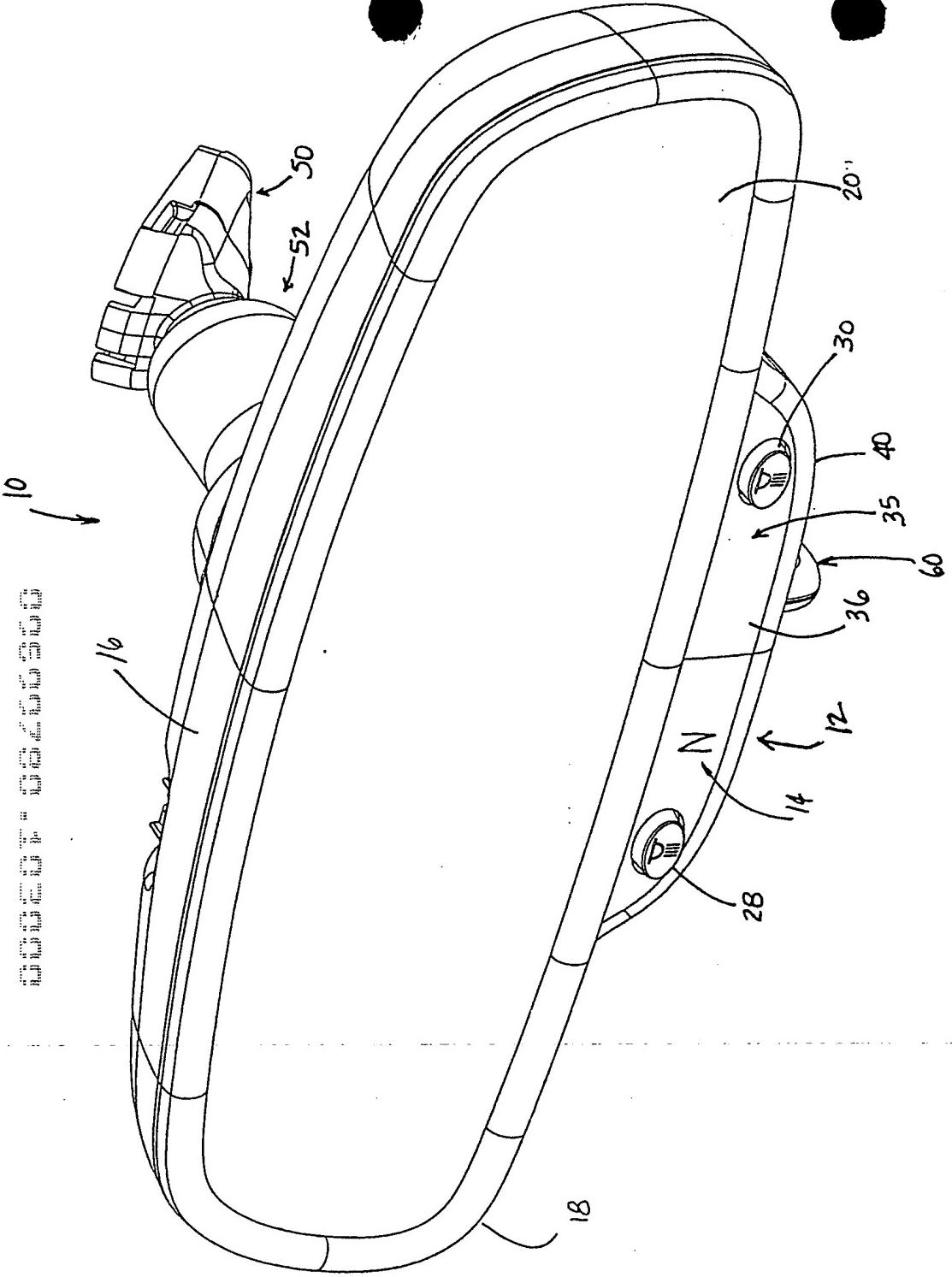


FIG. 2

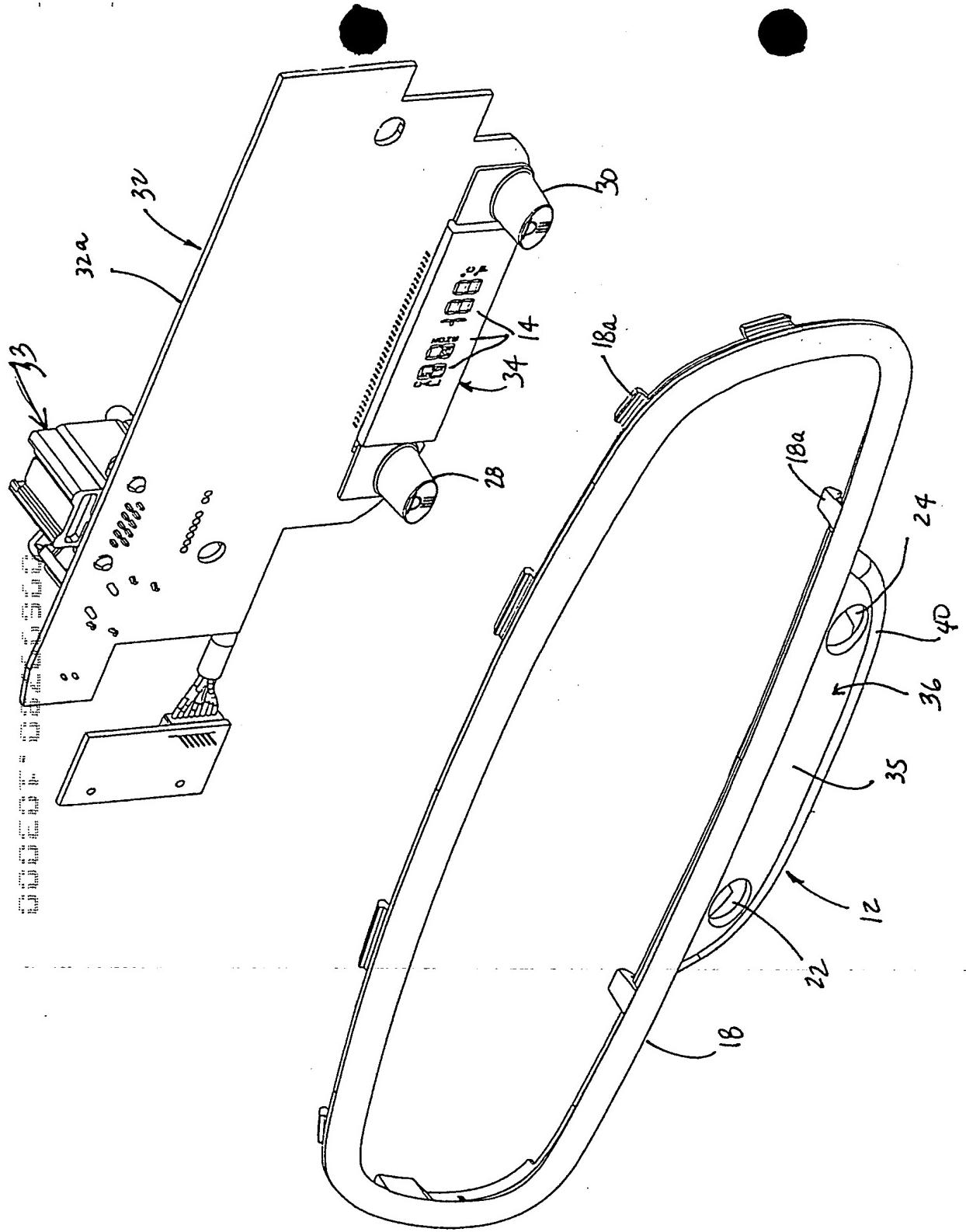


FIG. 3

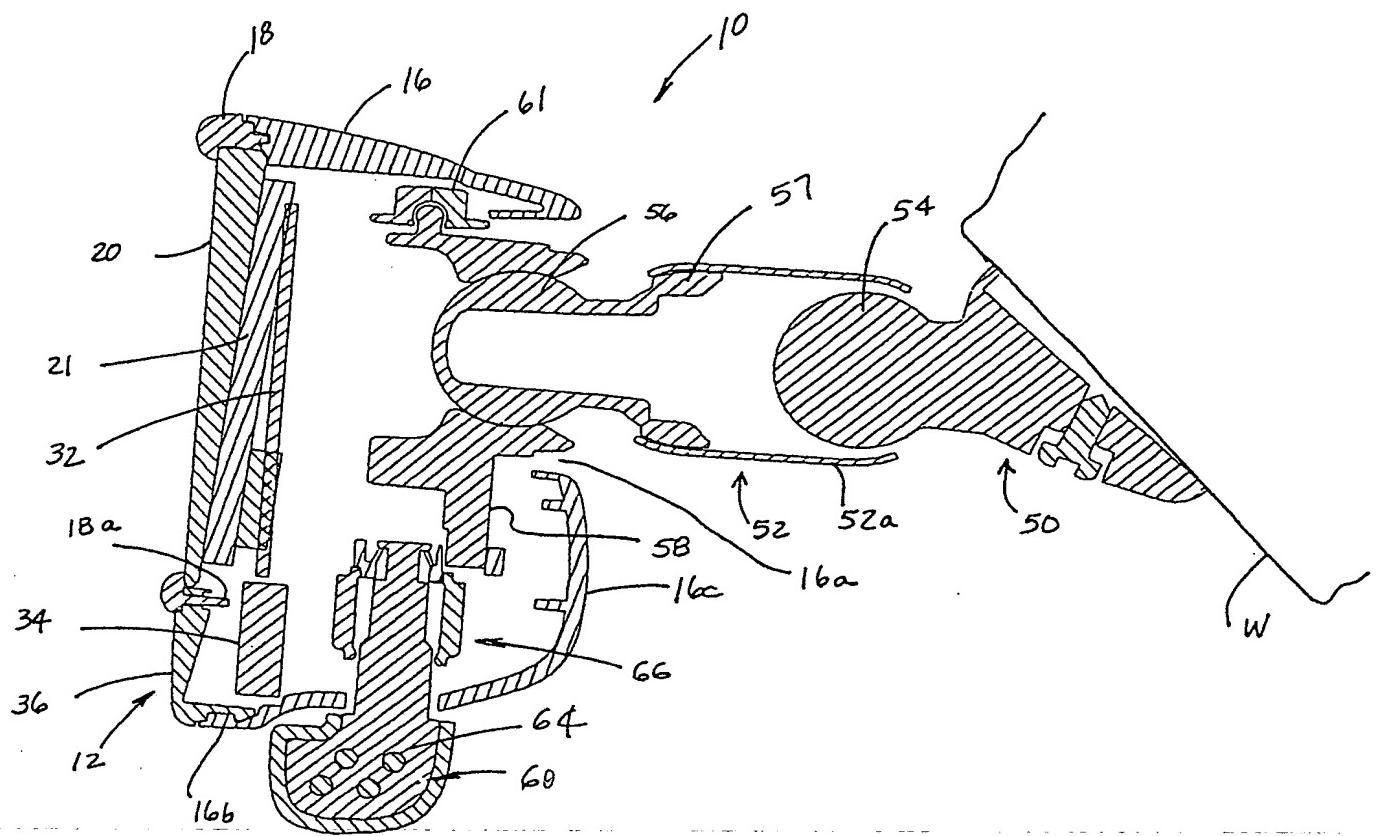
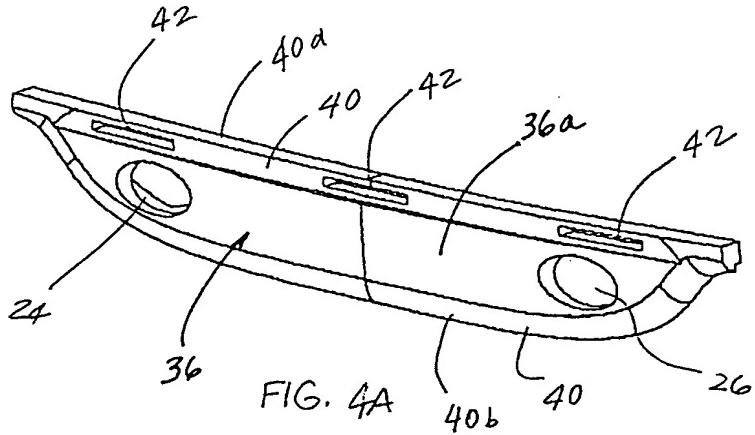
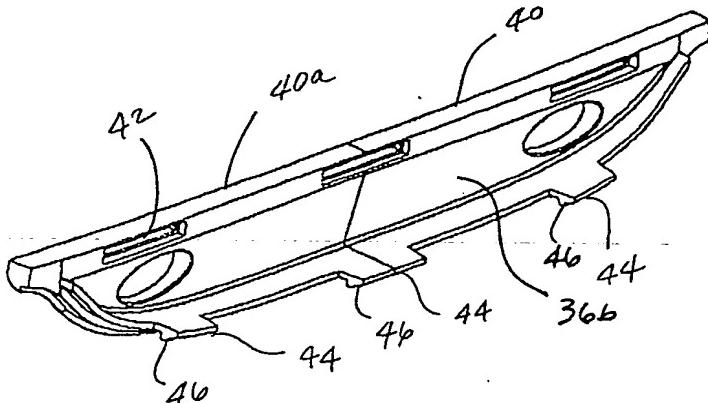


FIG. 4



Front of
Display lens



Rear of
Display lens

FIG. 5

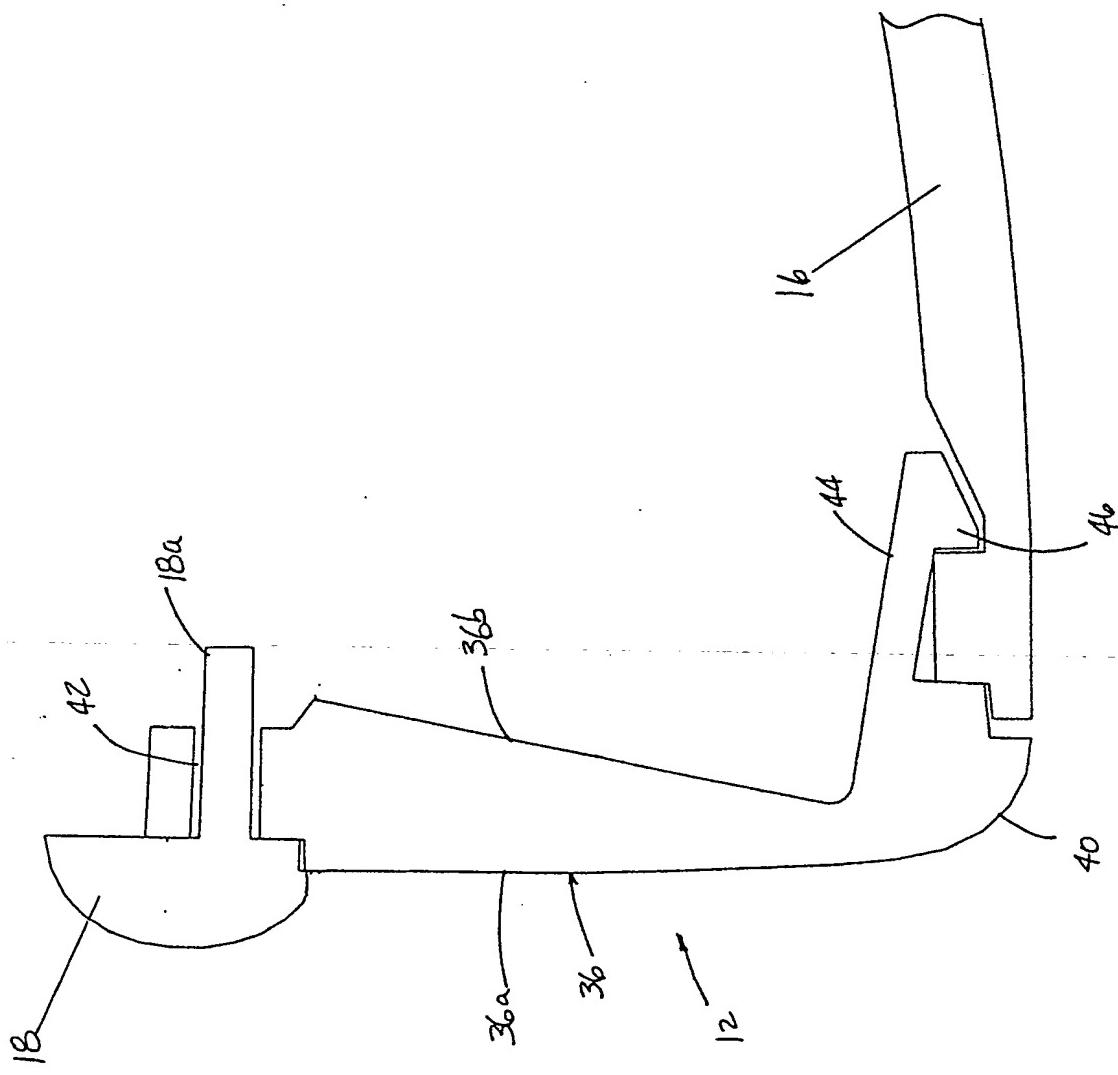


FIG. 6

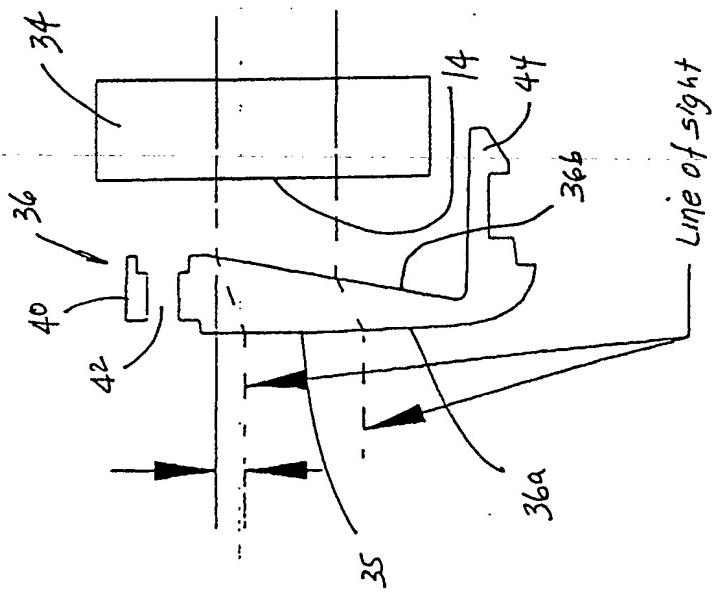
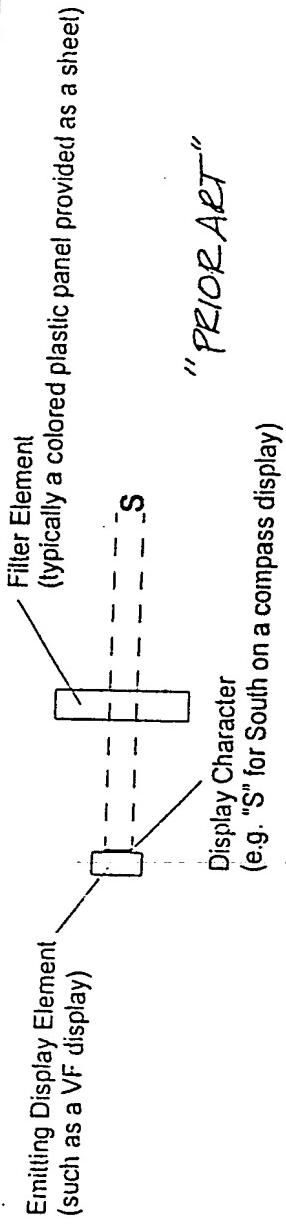


FIG. 6

Improved Vehicular Display/Filter Combination

Conventional

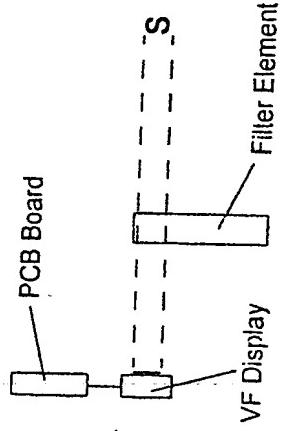


Problem

Due to space constraints/
PCB layout constraints, it is
difficult to align VF display
colinear with filter element

F/G . 7

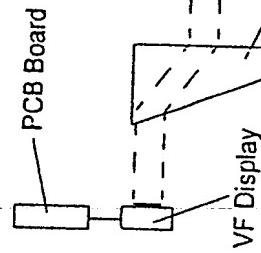
Note: VF display generally colinear with filter element



Solution

Optical filter element allowing
light bending to correct for
non-colinearity of the VF display
with respect to the filter element

F/G . 8



Note: Both refractive optics and diffractive optics can be used to adjust the display character light emitting axis to be central to the filter element

F/G . 9

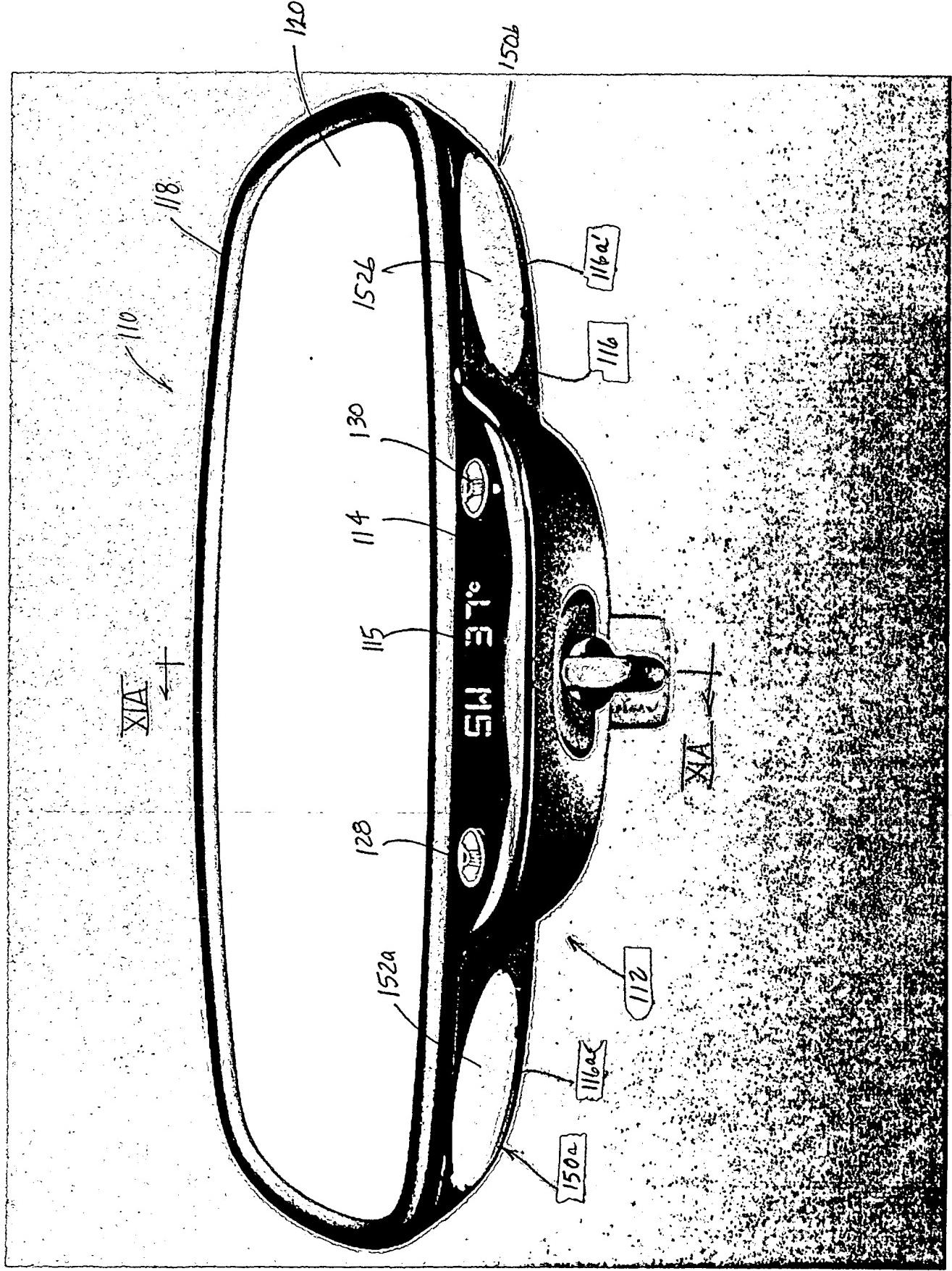


FIG. 10

1000 900 800 700 600 500 400 300 200 100 0

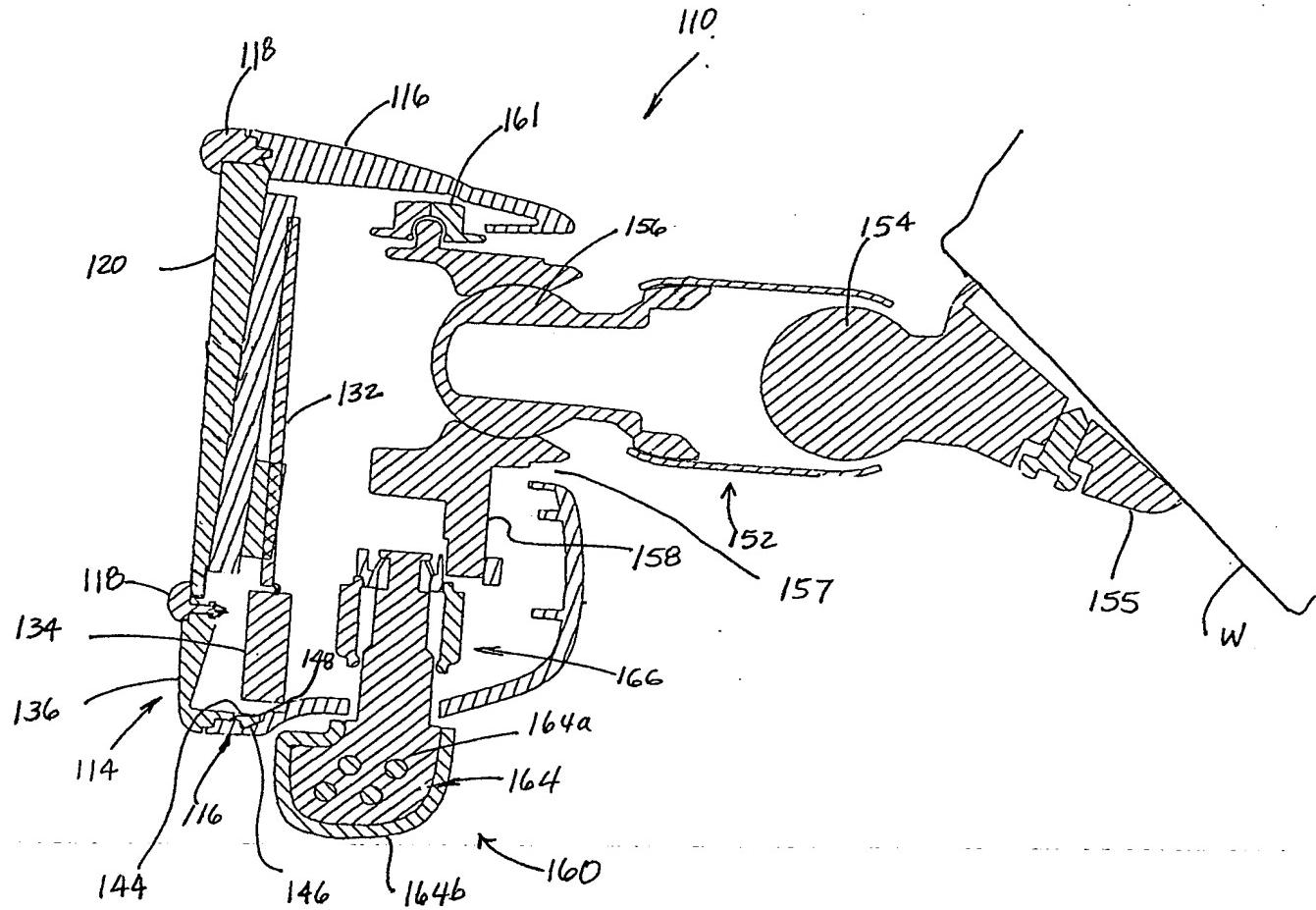


FIG. 11A

150a 150b 151a 151b 152a 152b 153a 153b 154a 154b 116a 116b 116c

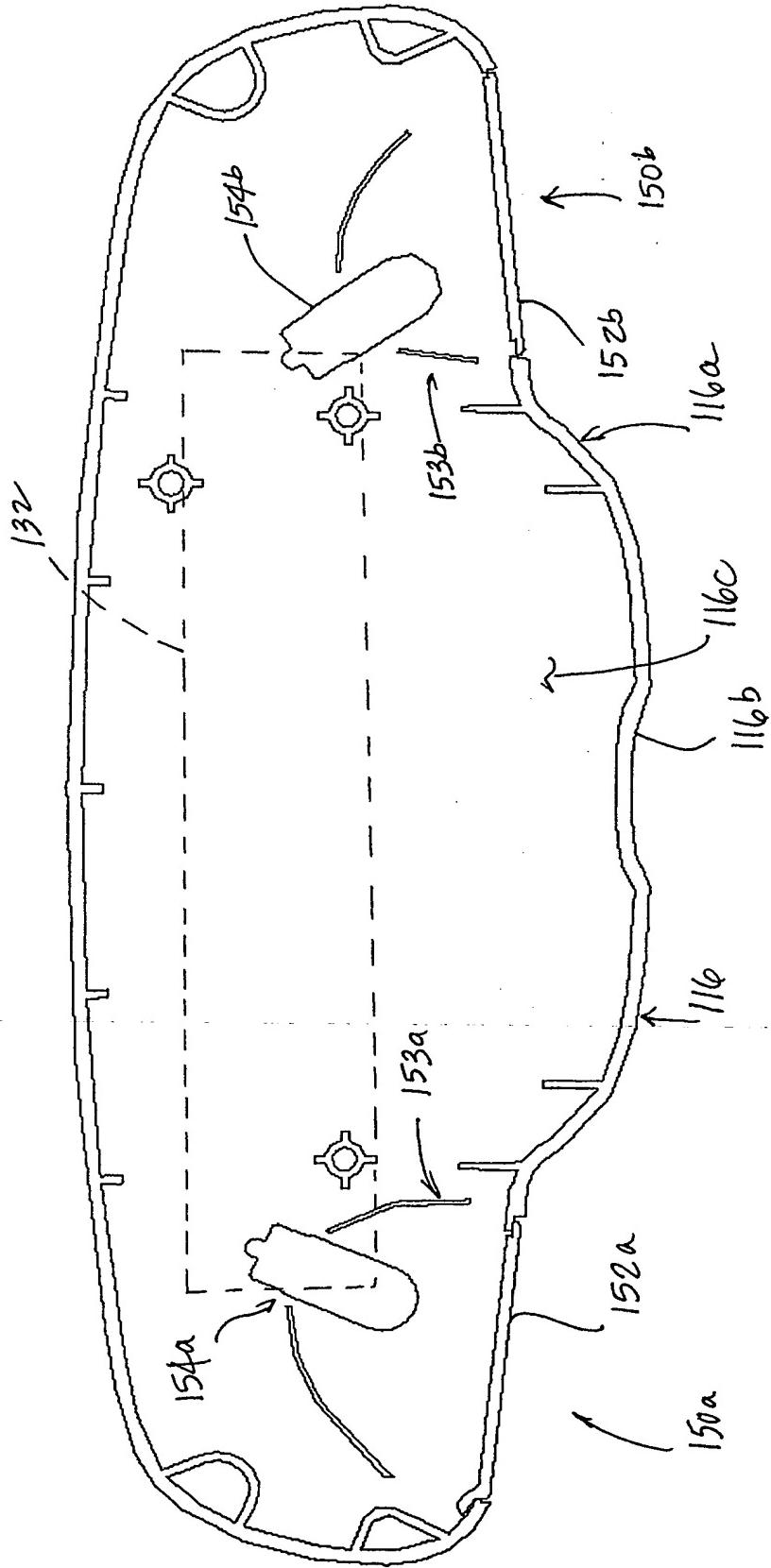


FIG. 11B

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Experimental Biology and Medicine

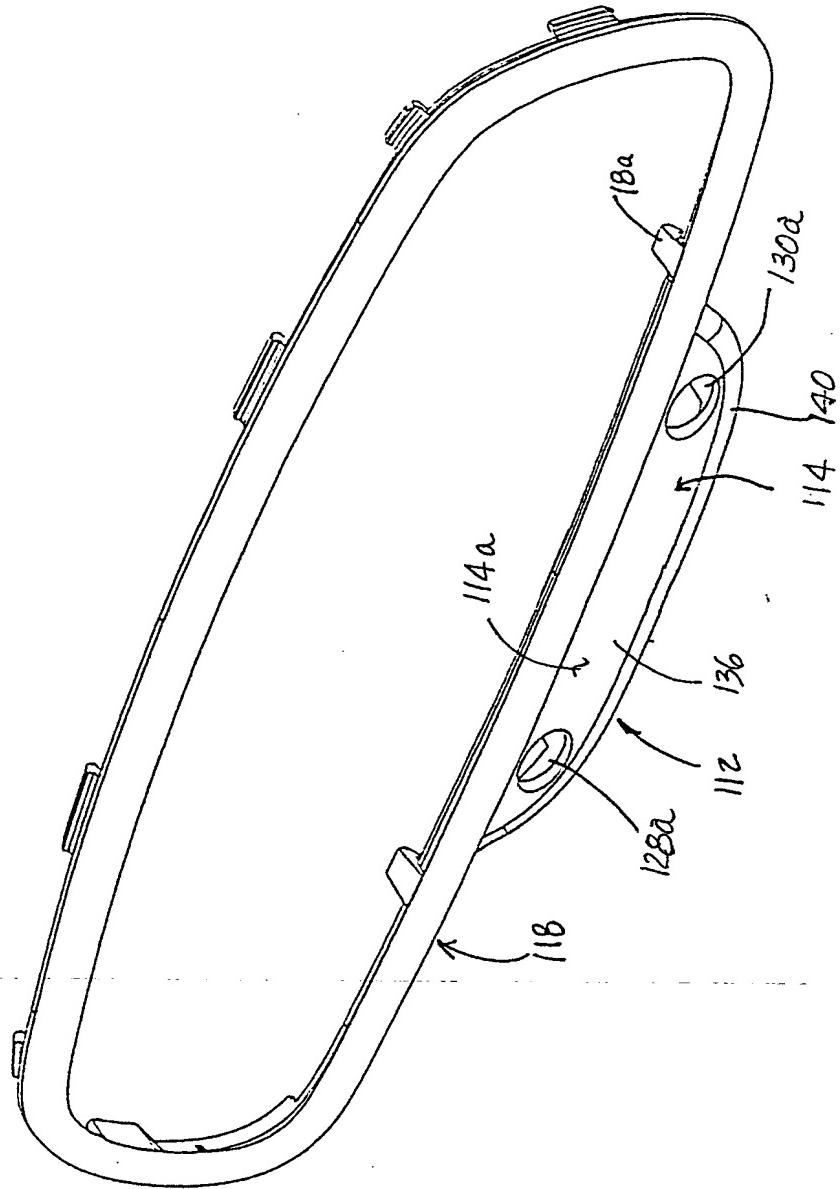


FIG. 12

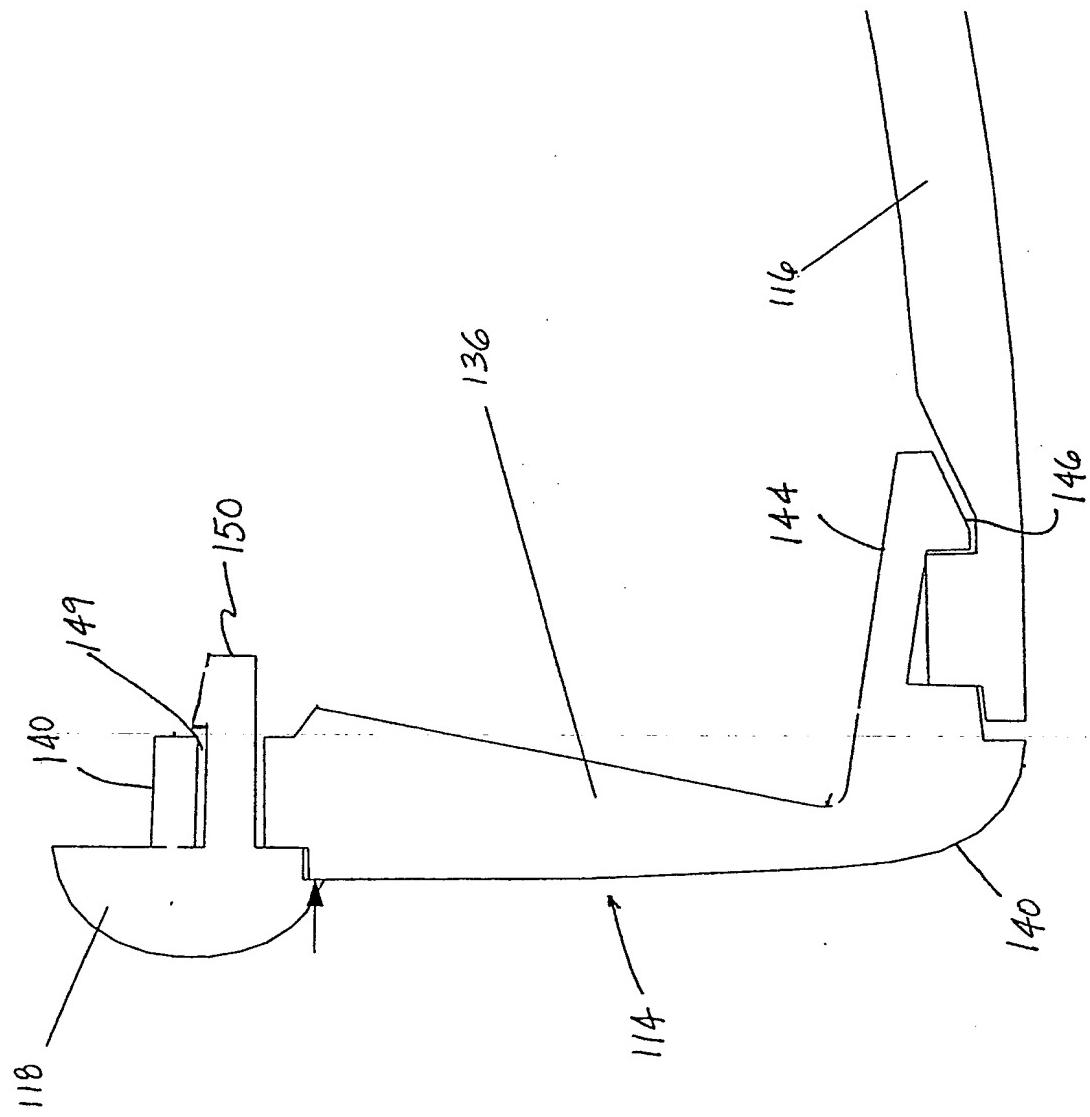


FIG. 12A

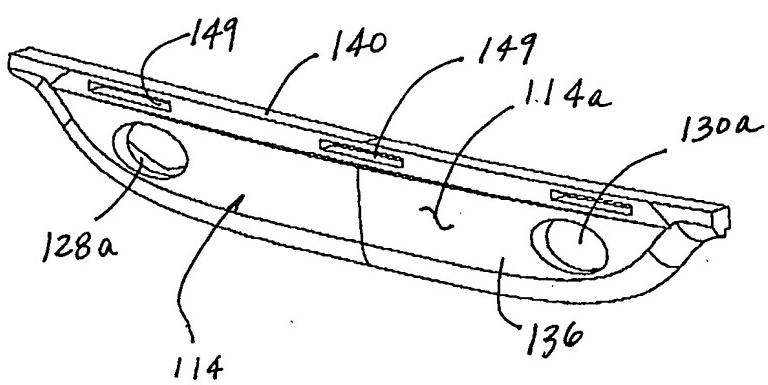


FIG. 12B

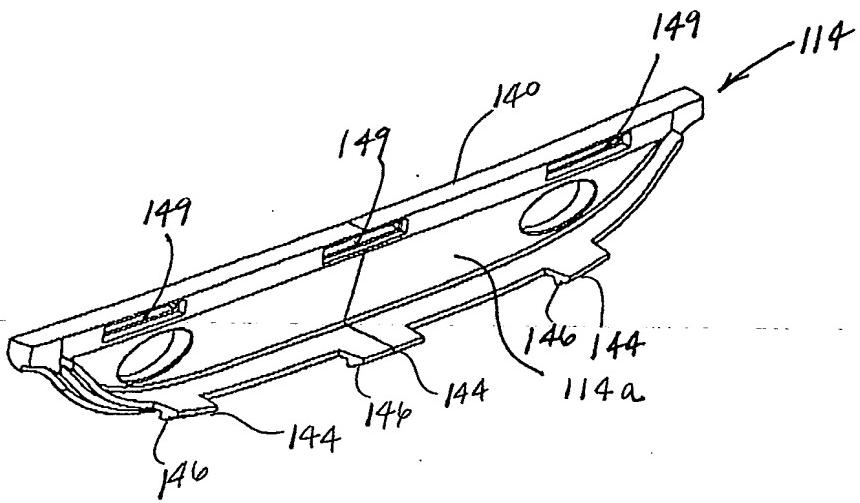
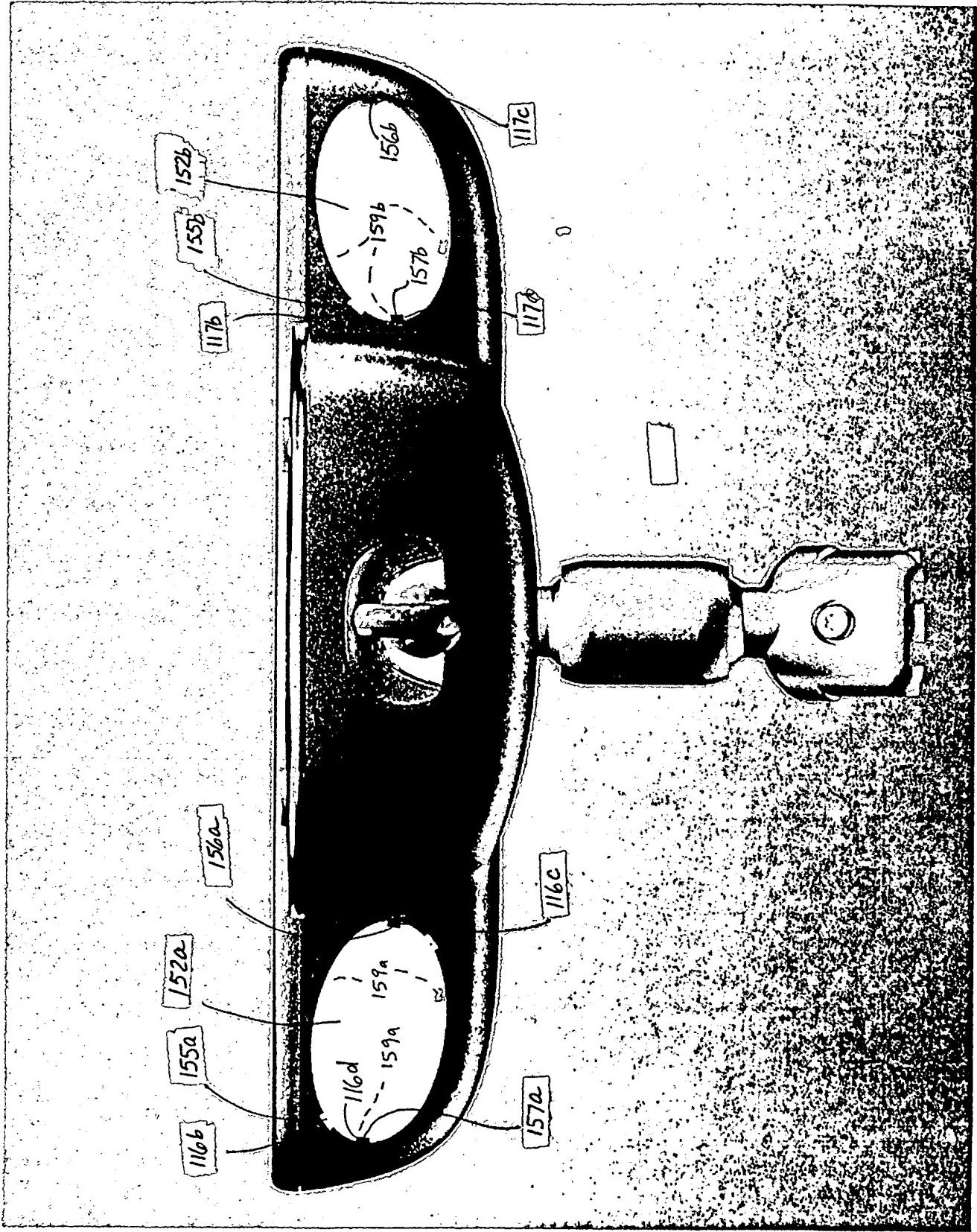


FIG. 12C

FIG. 13



155a (155b) 159a 152a (152b)

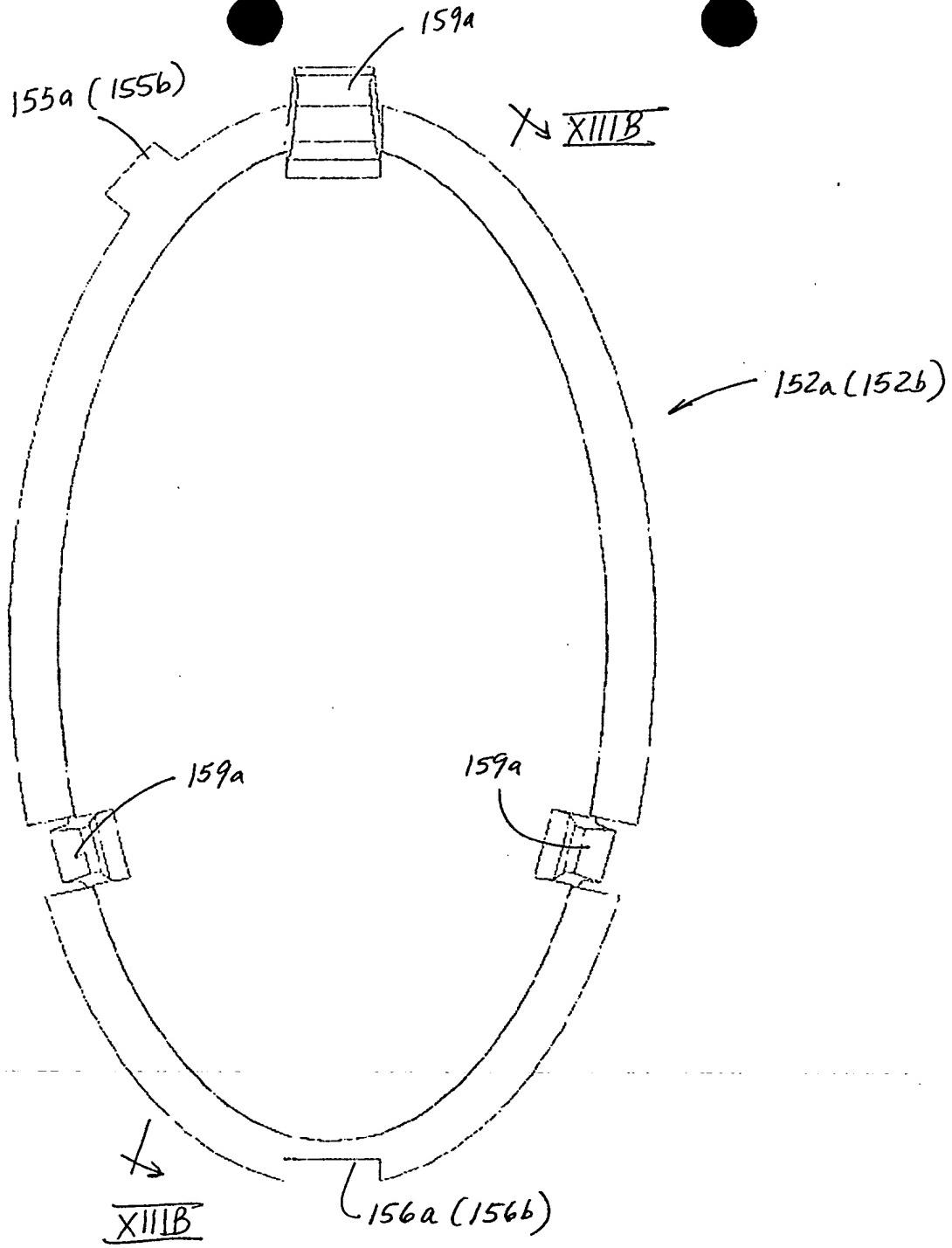
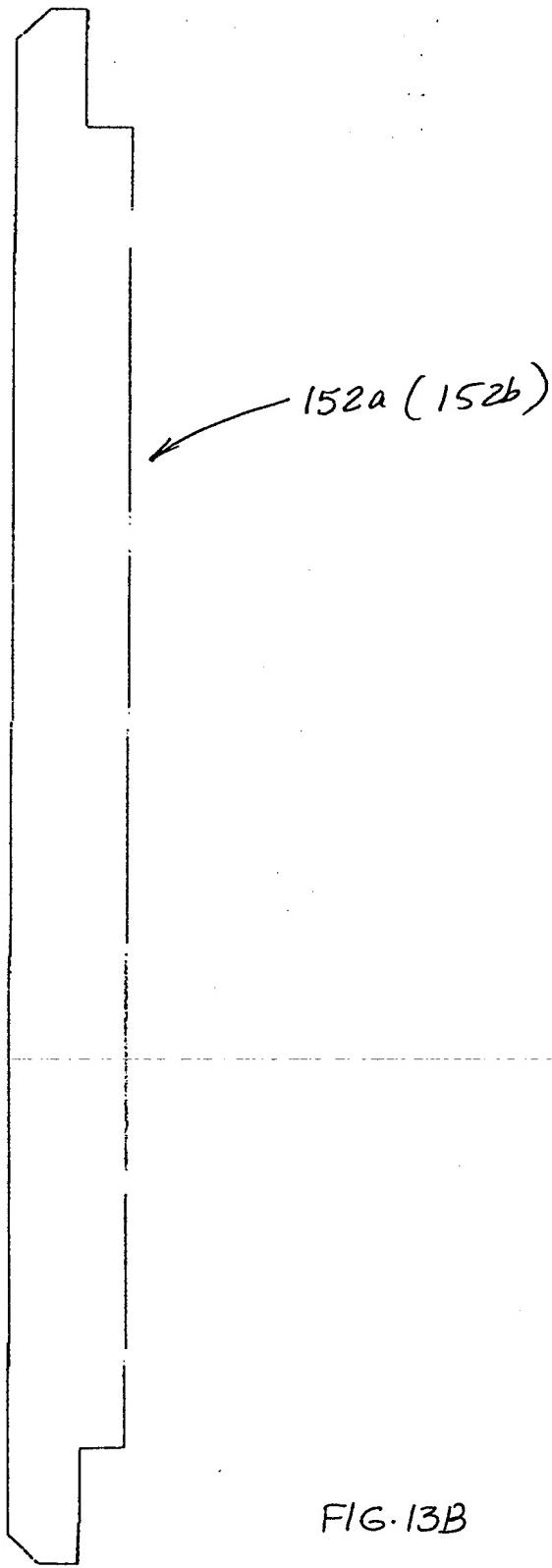


FIG. 13A

152a (152b)



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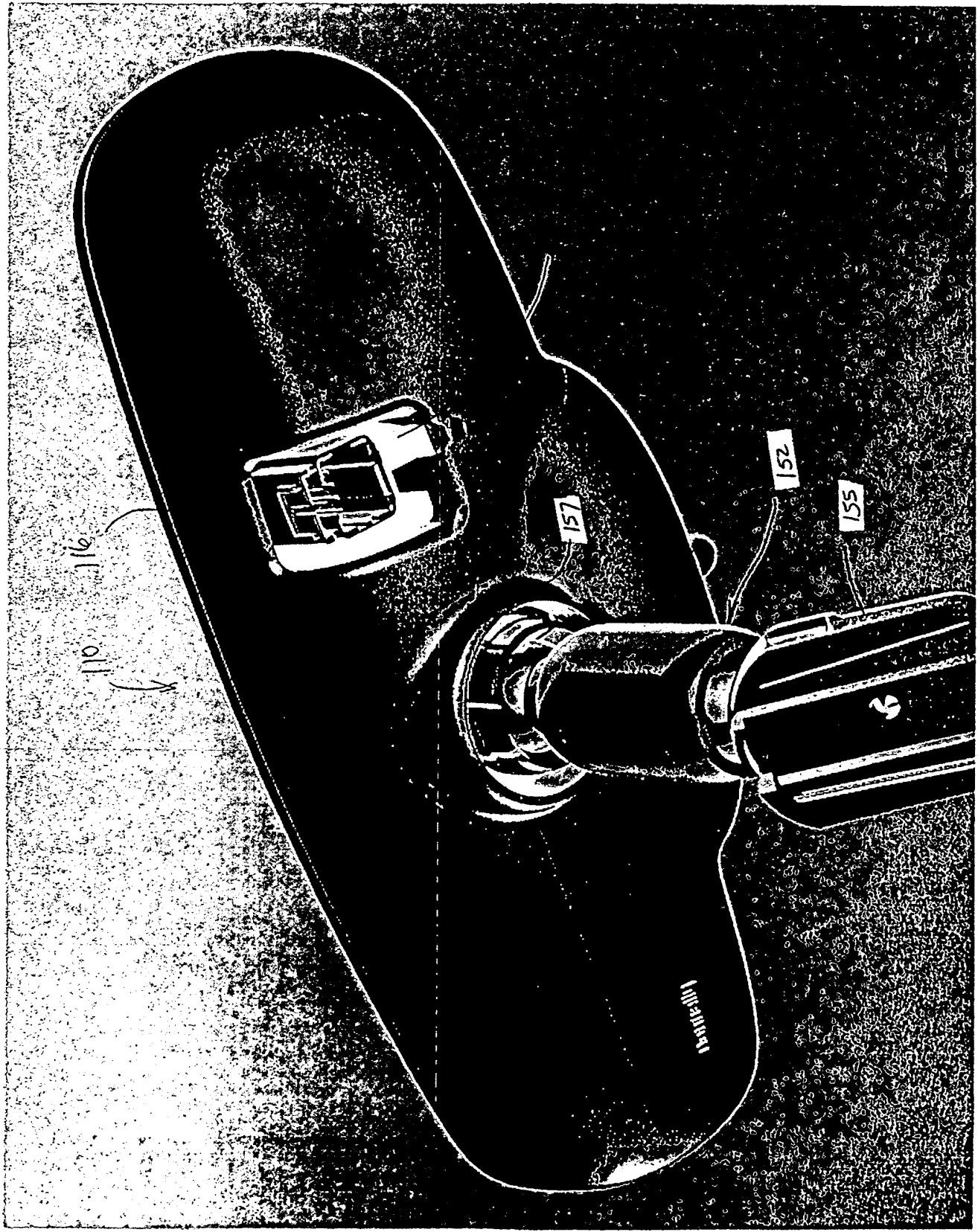


FIG. 14

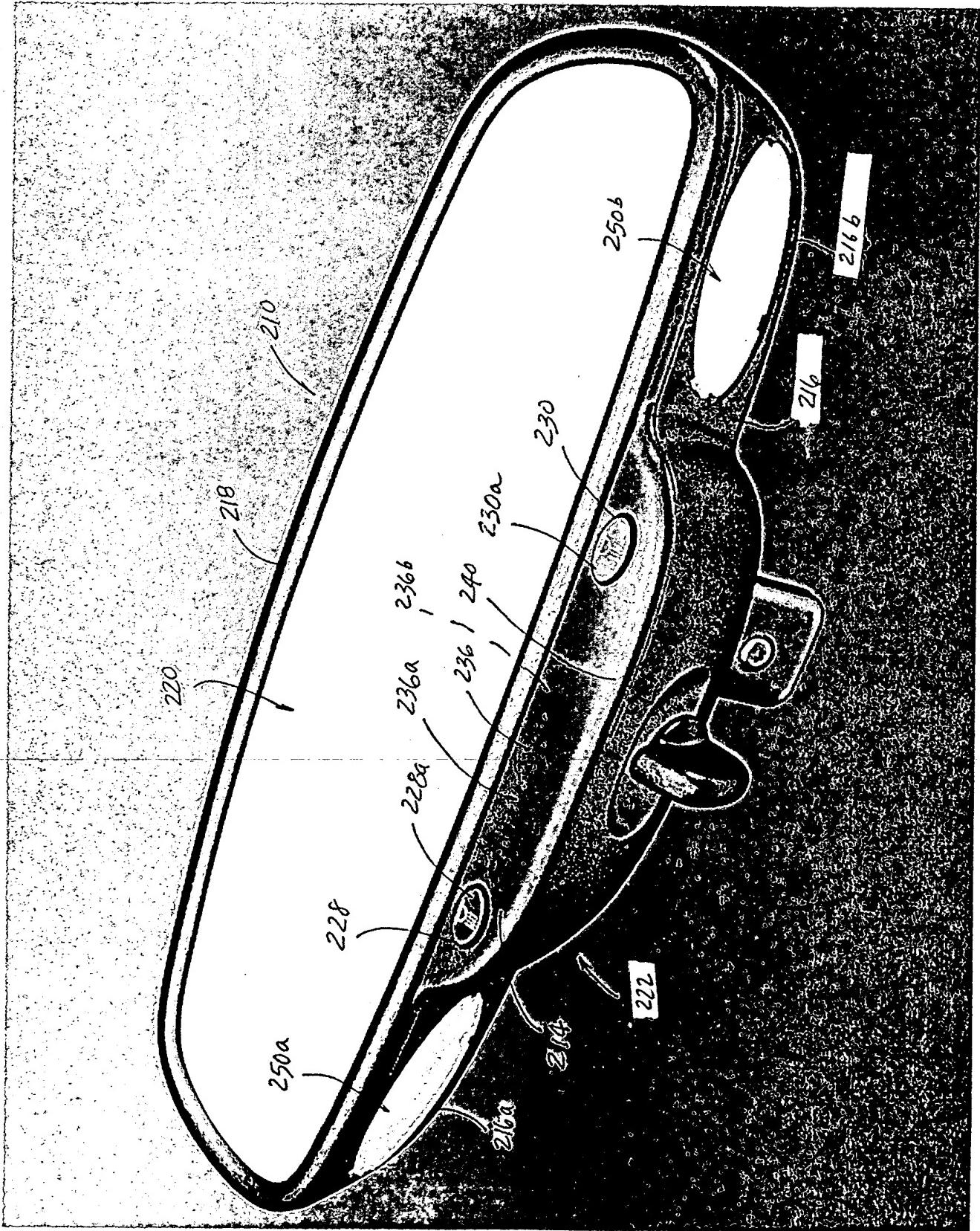


FIG. 15